Hydrologic Model Manager

Short Name	APEX
Long Name	Agricultural Policy/Environmental eXtender
Description	
Model Type	
Model Objectives	To provide a tool for managing whole farm watersheds or small watersheds to obtain Maximum production efficiency and maintain environmental quality.
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Model Structure	Subarea-EPIC Hydrology, weather, erosion(water and wind), N and P cycling, pesticide fate, soil temperature, plant growth, tillage Plant environmental control, and economics. Routing Overland flow, subsurface flow, channels, and flood plains, water, sediment, nutrients, pesticides
Interception	
Groundwater	
Snowmelt	
Precipitation	
Evapo-transpiration	
Infiltration	
Model Paramters	Farm or watershed may be divided into several(<100) subareas or fields Daily time step – long term simulations (1-4,000 years) Soil, weather, tillage and crop parameter data supplied with model Homogeneous subareas Weather generation is optional
Spatial Scale	Whole Farm – routing allows evaluation of interactions between fields (surface run-on, sediment deposition and degradation, nutrient and pesticide transport, and subsurface flow). Examples – terrace systems, grass waterways, strip cropping, buffer strips/vegetated filter strips, crop rotations, fertilizer, irrigation, liming, furrow diking, drainage, waste management (feed yards, dairies with or without lagoons)
Temporal Scale	
Input Requirements	

Computer Requirements	Dos under Win 95,98,WinNT
Model Output	
Parameter Estimatn Model Calibrtn	
Model Testing Verification	
Model Sensitivity	
Model Reliabiity	
Model Application	
Documentation	APEX8190 Manual (draft)
Other Comments	
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Developer	
Technical Contact	
Contact Organization	